

## ABSTRACT

A method for automatically generating front-end code and back-end code that are both compatible with a specification, such as the J2WP communication protocol. First, a detailed protocol specification is written that contains a description of an communication protocol  
5 between the front-end code and the back-end code. The detailed specification is then input into a code generator that parses the specification. The front-end code is then automatically generated from the formal specification, and may be written in a first computer language such as the Java™ programming language. The code generator then generates the back-end code, which may be written in a second computer language such as C.

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